AMENDMENT TO THE CLAIMS

- 1. (currently amended) A cover for temperature regulation of an electrical energy storage cell, the cover comprising:
 - a first layer of thermally conductive material that is shaped to conform to an outer surface of the electrical energy storage cell, the first layer spreading conducting heat flow from a hot spot on the storage cell during a short circuit; and
 - a second layer of thermally insulating material that is shaped to conform to an outer surface of the first layer, the second layer having an outer surface temperature that is lower than a temperature that can cause combustion in a combustible atmosphere, the second layer covering the first layer to prevent contact between the combustible atmosphere and the first layer.
- 2. (previously presented) The cover of Claim 1 wherein the electrical energy storage cell produces heat at the hot spot during the short circuit and the first layer of material spreads flow of the heat over a portion of the outer surface of the first layer that is larger than the hot spot and the second layer of material retards flow of the heat to an outer surface of the second layer.
- 3. (original) The cover of Claim 1 wherein the temperature of the outer surface of the second layer has a measured maximum temperature of 130 degrees centigrade or less during the short circuit condition.
- 4. (original) The cover of Claim 1 wherein the first layer of material comprises aluminum.
- 5. (original) The cover of Claim 1 wherein the first layer of material comprises copper.
- 6. (original) The cover of Claim 1 wherein the second layer of material comprises heat-shrink tubing.
- 7. (original) The cover of Claim 1 wherein the second layer of material comprises elastic material.

- 8. (previously presented) The cover of Claim 1 wherein the first layer comprises two thermally conductive half-shells that each cover one side of a round surface of the energy storage cell.
- 9. (currently amended) A battery for use in a combustible atmosphere, comprising:
 - a plurality of electrical energy storage cells that comprise at least one hot spot during a short circuit, each cell being covered by a first layer of thermally conductive material that is shaped to conform to an outer surface of the electrical energy storage cell, the first layer spreading conducting heat flow from the hot spot; and being covered by a second layer of thermally insulating material, the second layer preventing contact between the combustible gas and the first layer, and the second layer being that is shaped to conform to an outer surface of the first layer, the second layer having an outer surface temperature that is lower than a temperature which can cause combustion in the combustible atmosphere;

electrical connection leads;

- a protective device including a fusible link; and
- electrical interconnections that interconnect the plurality of electrical energy storage cells in a series circuit with the protective device and the electrical connection leads.
- 10. (original) The battery of Claim 9 further comprising:
 - a plastic resin shell shaped to receive the plurality of covered cells and the protective device.
- 11. (previously presented) The battery of Claim 10 wherein the plastic resin shell includes plastic resin separation bars positioned between the cells and the electrical interconnections to reduce shorting.
- 12. (currently amended) A process of covering an electrical energy storage cell, comprising:

 providing an electrical energy storage cell that comprises a hot spot during a short circuit;

 covering an outer surface of the electrical energy storage cell with a first layer of

- thermally conductive material that conforms with the outer surface of the electrical energy storage cell and that spreads conducts heat flow from the hot spot;
- providing a second layer of thermally insulating material with an outer surface temperature that is lower than a temperature which can cause combustion in a combustible atmosphere;
- covering the first layer with the second layer to prevent contact between the combustible atmosphere and the first layer; and
- shaping the second layer to conform to an outer surface of the first layer of material.
- 13. (original) The process of Claim 12 wherein the first layer of material is aluminum.
- 14. (original) The process of Claim 12 wherein the first layer of material is copper.
- 15. (original) The process of Claim 12 wherein the second layer of material is heat-shrink tubing.
- 16. (previously presented) The process of Claim 12 further comprising forming the first layer of material as two thermally conductive half-shell shapes that cover a curved surface of the energy storage cell.
- 17. (previously presented)The cover of Claim 1 wherein the short circuit is external to the electrical energy storage cell.
- 18. (previously presented) The battery of Claim 9 wherein the short circuit is external to the battery.
- 19. (previously presented) The process of claim 12 and the short circuit occurring external to the electrical energy storage cell.